

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

Claims 1 - 17. (Canceled).

Claim 18. (Currently Amended): A communication system controlling a logical connection comprising:

a controller;

a source node including a first connection control register; and

a destination node including a second connection control register,

wherein said controller is adapted to select one of a first and a second communication protocol as a communication protocol to be used between said source node and said destination node, to set a logical connection to be used between said source node and said destination node, to access the first connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by said controller, and to access the second connection control register to store therein information for the communication protocol selected by said controller and information for the logical connection set by said controller, [[and]]

wherein the first communication protocol is a communication protocol that uses a broadcast communication, but does not use an isochronous transfer, and

wherein said controller, said source node and said destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard.

Claims 19 - 29. (Canceled).

Claim 30. (Currently Amended): A method for a communication system that includes a controller, a source node including a first connection control register, and a destination node including a second connection control register ~~which controls a logical connection between the source node and the destination node~~, said method comprising the steps of:

selecting one of a first and a second communication protocol as a communication protocol to be used between the source node and the destination node in the controller;

setting ~~[[the]]~~ a logical connection to be used between the source node and the destination node in the controller;

accessing the first connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller; and

accessing the second connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller,

wherein the first communication protocol is a communication protocol that uses a broadcast communication, but does not use an isochronous transfer, and

wherein the controller, the source node and the destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard.

Claim 31 - 35. (Canceled).

Claim 36. (Currently Amended): A controller ~~which controls a logical connection between a source node including a first connection control register and a destination node including a second connection control register~~, said controller comprising:

a controlling unit adapted to select one of a first and a second communication protocol as a communication protocol to be used between ~~[[the]]~~ a source node including a first connection control register and ~~[[the]]~~ a destination node including a second connection control register, to set ~~[[the]]~~ a logical connection to be used between the source node and the destination node, to access the first connection control register to store therein information for the selected communication protocol and information for the set logical connection, and to access the second connection control register to store therein

information for the selected communication protocol and information for the set logical connection, [[and]]

wherein the first communication protocol is a communication protocol that uses a broadcast communication, but does not use an isochronous transfer, and

wherein the source node and the destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard.

Claim 37 - 40. (Cancelled).

Claim 41. (Currently Amended): A method for a controller ~~which controls a logical connection between a source node including a first connection control register and a destination node including a second connection control register~~, the method comprising the steps of:

selecting one of a first and a second communication protocol as a communication protocol to be used between [[the]] a source node including a first connection control register and [[the]] a destination node including a second connection control register in the controller;

setting [[the]] a logical connection to be used between the source node and the destination node in the controller;

accessing the first connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller; and

accessing the second connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller,

wherein the first communication protocol is a communication protocol that uses a broadcast communication, but does not use an isochronous transfer, and

wherein the source node and the destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard.

Claim 42. (Currently Amended): A communication system comprising:

a source node including a first connection control register;

a destination node including a second connection control register;

and

~~a controller adapted to control a logical connection between said source node and said destination node,~~

wherein said controller is adapted to select one of a first and a second communication protocol as a communication protocol to be used between said source node and said destination node, to set ~~[[the]]~~ a logical connection to be used between said source node and said destination node, to access the first connection control

register to store therein information for the communication protocol selected by said controller and information for the logical connection set by said controller, and to access the second connection control register to store therein information for the communication protocol selected by said controller and information for the logical connection set by said controller, [[and]]

wherein said controller, said source node and said destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard, and

wherein said first communication protocol is a communication protocol that uses an asynchronous transfer, but does not use an isochronous transfer.

Claim 43. (Previously Presented): A communication system according to Claim 42, wherein the second communication protocol is a communication protocol that does not use a broadcast communication.

Claim 44. (Previously Presented): A communication system according to Claim 43, wherein the first communication protocol is a communication protocol that uses a broadcast communication.

Claim 45. (Currently Amended): A method for a communication system that includes a source node including a first connection control register, a destination node including a second connection control register and a controller ~~for controlling a logical~~

~~connection between the source node and the destination node~~, said method comprising the steps of:

selecting one of a first and a second communication protocol as a communication protocol to be used between the source node and the destination node in the controller;

setting ~~[[the]]~~ a logical connection to be used between the source node and the destination node in the controller;

accessing the first connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller; and

accessing the second connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller,

wherein the controller, the source node and the destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard, and

wherein said first communication protocol is a communication protocol that uses an asynchronous transfer, but does not use an isochronous transfer.

Claim 46. (Previously Presented): A method according to Claim 45, wherein the second communication protocol is a communication protocol that does not use a broadcast communication.

Claim 47. (Previously Presented): A method according to Claim 46, wherein the first communication protocol is a communication protocol that uses a broadcast communication.

Claim 48. (Currently Amended): A controller ~~which controls a logical connection between a source node including a first connection control register and a destination node including a second connection control register~~, said controller comprising:

a controlling unit adapted to select one of a first and a second communication protocol as a communication protocol to be used between ~~[[the]]~~ a source node including a first connection control register and ~~[[the]]~~ a destination node including a second connection control register, to set ~~[[the]]~~ a logical connection to be used between the source node and the destination node, to access the first connection control register to store therein information for the selected communication protocol and information for the set logical connection, and to access the second connection control register to store therein information for the selected communication protocol and information for the set logical connection, ~~[[and]]~~

wherein the source node and the destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard, and

wherein said first communication protocol is a communication protocol that uses an asynchronous transfer, but does not use an isochronous transfer.



Claim 49. (Previously Presented): A controller according to Claim 48, wherein the second communication protocol is a communication protocol that does not use a broadcast communication.

Claim 50. (Previously Presented): A controller according to Claim 49, wherein the first communication protocol is a communication protocol that uses a broadcast communication.

Claim 51. (Currently Amended): A method for a controller ~~which controls a logical connection between a source node including a first connection control register and a destination node including a second connection control register~~, said method comprising the steps of:

selecting one of a first and a second communication protocol as a communication protocol to be used between ~~[[the]]~~ a source node including a first connection control register and ~~[[the]]~~ a destination node including a second connection control register in the controller;

setting ~~[[the]]~~ a logical connection to be used between the source node and the destination node in the controller;

accessing the first connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller; and

accessing the second connection control register to store therein information for the communication protocol selected by the controller and information for the logical connection set by the controller,

wherein the source node and the destination node are adapted to communicate with each other using a communication unit conformed to IEEE 1394-1995 standard, and

wherein said first communication protocol is a communication protocol that uses an asynchronous transfer, but does not use an isochronous transfer.

Claim 52. (Previously Presented): A method according to Claim 51, wherein the second communication protocol is a communication protocol that does not use a broadcast communication.

Claim 53. (Previously Presented): A method according to Claim 52, wherein the first communication protocol is a communication protocol that uses a broadcast communication.